

FIRST CALIFORNIA ELECTRICITY AND AIR QUALITY CONFERENCE

Recent Research Findings for Decision Making

October 3 and 4, 2006
Radisson Hotel, Sacramento

Tuesday, October 3, 2006

9AM – 5PM

9:00 – Opening

Marla Mueller (*California Energy Commission*)

9:05 – Introductory and Welcoming Remarks

Commissioner Jim Boyd (*California Energy Commission*)

9:15 – Keynote Address

Linda Adams (*California Environmental Protection Agency*)

9:55 – The Future of California's Energy Supply: Clean, Diverse & Efficient

Hal LaFlash (*Pacific Gas & Electric*)

10:15 – Understanding the Role of Electricity in California's Air Quality

Matthew Layton (*California Energy Commission*)

10:35 – Break

Session 1

11:00 – Innovative Approaches to Electricity and Air Quality Planning

Session Chair – Kelly Birkinshaw (*California Energy Commission*)

Understanding the Role Heat Island Controls Could Have on Improving Air Quality

Haider Taha (*Altostratus, Inc.*)

Using Seasonal Modeling to Better Understand Emissions Impacts on Air Quality in Central California

Nancy Brown (*Lawrence Berkeley National Laboratory*)

How Energy Efficiency and Demand Response Can Help Air Quality

Mary Ann Piette (*Lawrence Berkeley National Laboratory*)

Q&A

12:20 – Lunch & Speaker

Peter Schwartz – *How Urgent? The great energy transformation*

Session 2

1:30 – Distributed Generation

Session Chair – Mike Waugh (*California Air Resources Board*)

Life Cycle Analysis of DG

Margaret Mann (*National Renewable Energy Laboratory*)

Understanding Regional DG Impacts and Placement Options in Central and Southern California

Jack Brouwer (*University of California, Irvine*)

Emissions from In-Use Internal Combustion Engine DG and Lessons Learned

Marty Kay (*South Coast Air Quality Management District*)

Q&A

2:50 – Break

Session 3

3:10 – Building Characteristics and Indoor Environmental Quality

Session Chair – Peggy Jenkins (*California Air Resources Board*)

Indoor Air Quality in New Homes

Max Sherman (*Lawrence Berkeley National Laboratory*)

Building Characteristics and Indoor Environmental Quality in California Classrooms

Tom Phillips (*California Air Resources Board*)

Indoor Pollutant Emissions

Dorothy Shimer/Peggy Jenkins (*California Air Resources Board*)

Q&A

4:30 – Land Use Model: I-PLACE³S

Anne Happel (*EcoInteractive, Inc.*)

Day 1 Closing Remarks

5:30 – No-Host Social Hour in Edgewater F

Wednesday, October 4, 2006

9AM – 4:15 PM

Session 4

9:00 – Air Quality and Natural Gas Interchangeability

Session Chair – Kevin Shea (*Southern California Gas*)

Natural Gas Variability in California and Research to Evaluate Interchangeability

David Rue (*Gas Technology Institute*)

Interchangeability and Power Plants

Will Walters (*Aspen Environmental Group*)

Interchangeability and Turbines

Doug Straub (*National Energy Technology Laboratory*)

Q&A

10:20 – Break

Session 5

10:40 – Understanding Ultrafine Particles

Session Chair – Jack Broadbent (*Bay Area Air Quality Management District*)

Health Impacts of Ultrafine Particulate Matter

Robert Devlin (*U.S. Environmental Protection Agency*)

Fine Particulate Emission Factors for Oil- and Gas-Fired Combustion Systems

Glenn England (*GE Energy*)

Characterization of Combustion-generated Ultrafine Particles from Mobile Sources

Alberto Ayala (*California Air Resources Board*)

Q&A

12:15 – Lunch

Session 6

1:30 – Community Tools for Environmental Justice

Session Chair – Shankar Prasad (*California Environmental Protection Agency*)

Community Concerns Related to Expansion or Siting of New Power Generation Facilities or Units

Bill Gallegos (*Communities for a Better Environment*)

What Are the Current Environmental Justice Issues?

James Sadd (*Occidental College*)

Estimating Air Quality Impacts in Urban Neighborhoods from the Use of Distributed Generation

Akula Venkatram (*University of California, Riverside*)

Q&A

2:50 – Break

3:10 – Panel

Future Research Directions for Informed Policy Making

Moderator – James Lents (*University of California, Riverside*)

Discussing Future Policy Direction and Identifying Missing Informational Pieces for Making Better Policy Decisions

John Geesman (*Commissioner, California Energy Commission*)

Mike Scheible (*Deputy Executive Office, Air Resources Board*)

Mark Ross (*Board Member, Bay Area Air Quality Management District*)

Cynthia Verdugo-Peralta (*Board Member, South Coast Air Quality Management District*)

John White (*Executive Director, Center for Energy Efficiency and Renewable Energy*)

Day 2 Closing Remarks